

**WHAT IS CLAIMED IS:**

1. A sound control signal to control a sound synthesizer to cause the sound synthesizer to generate sound that simulates the sound of an internal combustion engine having a plurality of cylinders, the cylinders having a firing interval, the sound control signal comprising:

a repetition rate that matches the firing interval;

a first sound signal applied to the sound synthesizer, the first sound signal having at least one of:

a first pitch that can be varied for each firing interval, and

a first volume that can be varied for each firing interval;

and

a second sound signal applied to the sound synthesizer concurrently with the first sound signal, the second sound signal having at least one of:

a second pitch that can be varied for each firing interval independently of the first pitch of the first sound signal, and

a second volume that can be varied for each firing interval independently of the first volume of the first sound signal.

2. The sound control signal as defined in Claim 1, wherein the first pitch and the first volume of the first sound signal are varied at a first rate and the second pitch and the second volume of the second sound signal are varied at a second rate different from the first rate to cause the synthesizer to generate sound having fluctuations in volume, pitch and tone.